

Title (en)
Use of substantially oxygen-free, dendritic and uncoated copper for galvanic plating of printing cylinders

Title (de)
Verwendung von im wesentlichen sauerstofffreiem, dendritischem und unbeschichtetem Kupfer zur galvanischen Beschichtung von Druckzylindern

Title (fr)
Utilisation de cuivre dendritique, sans dépôt et substantiellement sans oxygène pour le revêtement galvanique de cylindres d'impression

Publication
EP 1249518 B1 20080305 (DE)

Application
EP 01108922 A 20010410

Priority
EP 01108922 A 20010410

Abstract (en)
[origin: EP1249518A1] Use of oxygen-free dendritic uncoated copper for galvanically coating pressure cylinders (1) in a bath (2) containing an immersed cathode (4) and an anode (3). The pressure cylinders form the cathode and the copper is fed to the bath via the anode. Use of oxygen-free dendritic uncoated copper for galvanically coating pressure cylinders (1) in a bath (2) containing an immersed cathode (4) and an anode (3). The pressure cylinders form the cathode and the copper is fed to the bath via the anode.) The copper is produced according to a casting wire process, in which the wire is cast upward and the wire is introduced into the bath in wire sections (32). The oxygen content of the copper is less than 5 ppm, especially not more than 3 ppm.

IPC 8 full level
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Citation (examination)

- JP H0867932 A 19960312 - MITSUBISHI MATERIALS CORP
- US 2003029527 A1 20030213 - YAJIMA KENJI [JP], et al
- DE 2449735 A1 19760429 - NOCKEMANN OTTO
- GB 2041411 A 19800910 - HITACHI WIRE ROD
- HEBERLEIN M.F.W.: "OFHC-Kupfer", Z. METALLKUNDE, vol. 45, no. 6, 1954, pages 317 - 321, XP009072117
- "Ullmanns Encyklopädie der technischen Chemie", 1960, URBAN & SCHWARZENBERG
- "Ullmann's Encyclopedia of Industrial Chemistry", 1986, WEINHEIM, NEW YORK, NY
- A.K. BISWAS AND W.G. DAVENPORT: "Extractive metallurgy of copper", 1976, PERGAMON PRESS
- "Innovations, The online magazine from the copper development association", Retrieved from the Internet <URL:www.copper.org/innovation/1997/12/wiremetallurgy.html>
- W.F. HARRIS AND W.M. HICKAM: "Determination of oxygen in copper", ANALYTICAL CHEMISTRY, vol. 31, no. 2, 1959

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